



YOUR INDEPENDENT HPE SOFTWARE COMMUNITY



Performance Engineering in Agile
February 9, 2016

Brought to you by

Vivit Performance Engineering SIG

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<http://bit.ly/VIVITPE>



Hosted By:



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Application Services Manager,
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Panelists



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Chief Technology
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Sr. Dir, QE & A
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Housekeeping

- This “LIVE” session is being recorded
Recordings are available to all Vivit members
- Session Q&A:
Please type questions in the Questions Pane



Webinar Control Panel

Toggle View Window between Full screen/window mode.

Questions



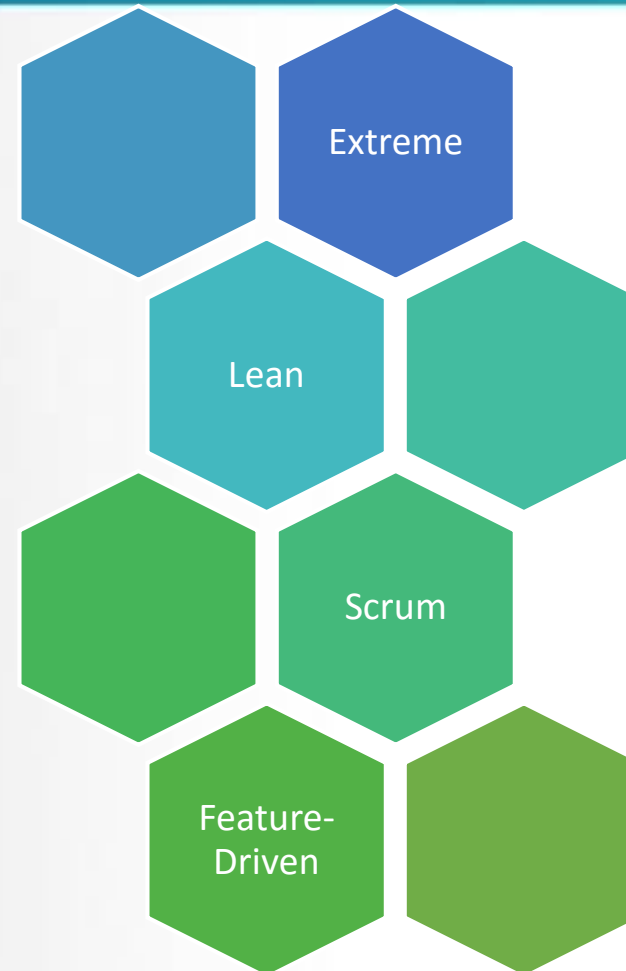
Today's Agenda

- What is Agile / Performance Engineering (PE)
- How PE is impacted by waterfall
- How Agile can be impacted by PE
- Real-life stories



What is Agile

Iterative Development



Polling Question #1

How progressive are you in using Agile as your SDLC? [select one]

1. Advanced
2. Average
3. Just Starting
4. None



Performance Engineering

Enhancing the common goal of a proper and quality-ensured user experience under all circumstances made available through performance engineering

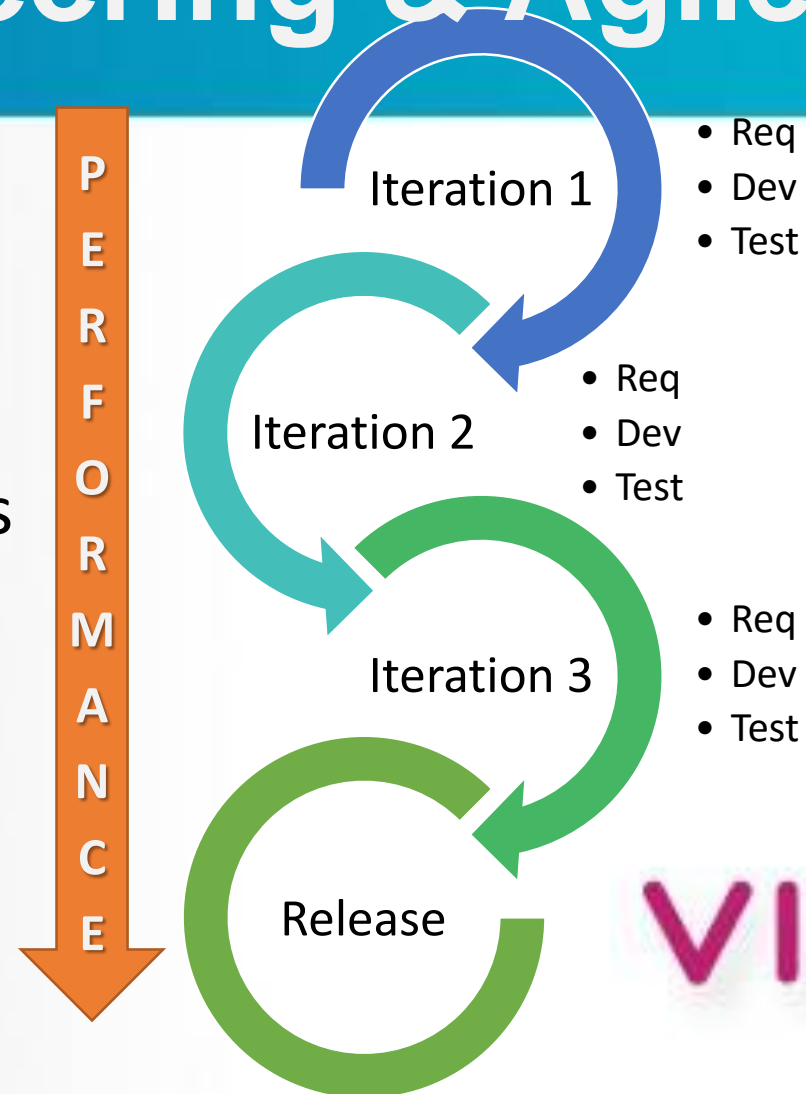


Episode 1
Before Agile

***A long time ago on
a waterfall project
the testing team had
to wait until the
very end for
performance testing***

Performance Engineering & Agile

- Test every iteration
- Understand impact of changes
- Build testing scripts as you deliver
- Ensuring quality and responsiveness



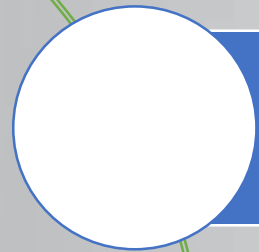
Polling Question #2

How are Performance Engineering practices incorporated into your SDLC? [select one]

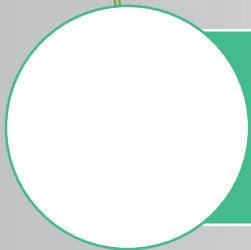
1. Advanced
2. Average
3. Just Starting
4. None



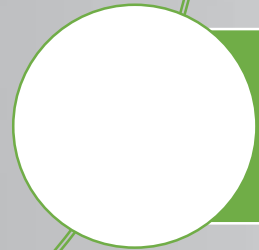
Maintaining Performance in Agile



Changes



New Features







Technology Changes



Test Always @Independent Health

Daily performance test on all ESB consuming applications

- Observe trends
- Frequent 'iterative' deploys
- Eliminates 'did we remember to test?'

M	T	W	Th	F
9pm 	9pm	9pm 	9pm	9pm
9pm 	9pm	9pm	9pm	9pm 



Journey to Agile



Waterfall

Agile



Polling Question #3

Do you feel the HPE Software capabilities enable you to deliver Performance Engineering within Agile? [select one]

1. Yes
2. No
3. Not sure
4. Want to learn more



So, what about PE, Agile & HPE

- LoadRunner / Performance Center 12+
 - Test from the cloud
 - Test Mobile
 - Integrate with CI / Build Server
 - Integrate with HPE Agile Manager
 -more?



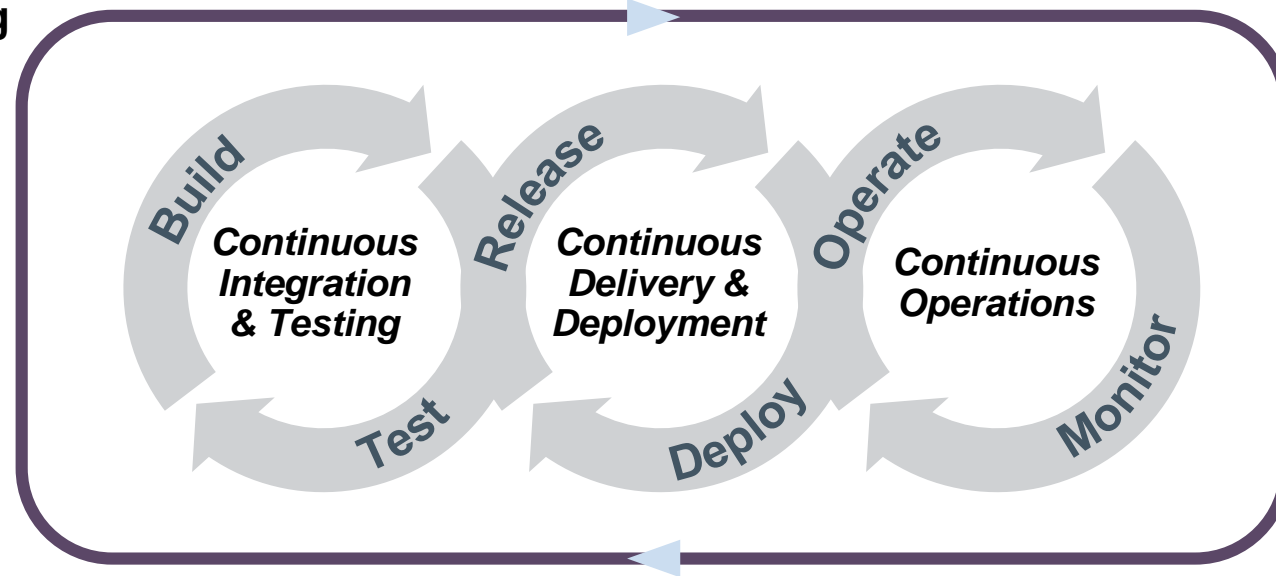
Continuous assessment

HPE PPM HPE APM
HPE AGM HPE BSM
HPE AppDefender HPE App Pulse

Continuous Assessment

Continuous integration & testing

HPE Verigreen
HPE AGM
HPE ALM & ALI
HPE LeanFT
HPE Fortify
HPE DevInspect
HPE LR, PC, SRL
HPE Mobile Center
HPE Service Virtualization
HPE Network Virtualization



Continuous operations

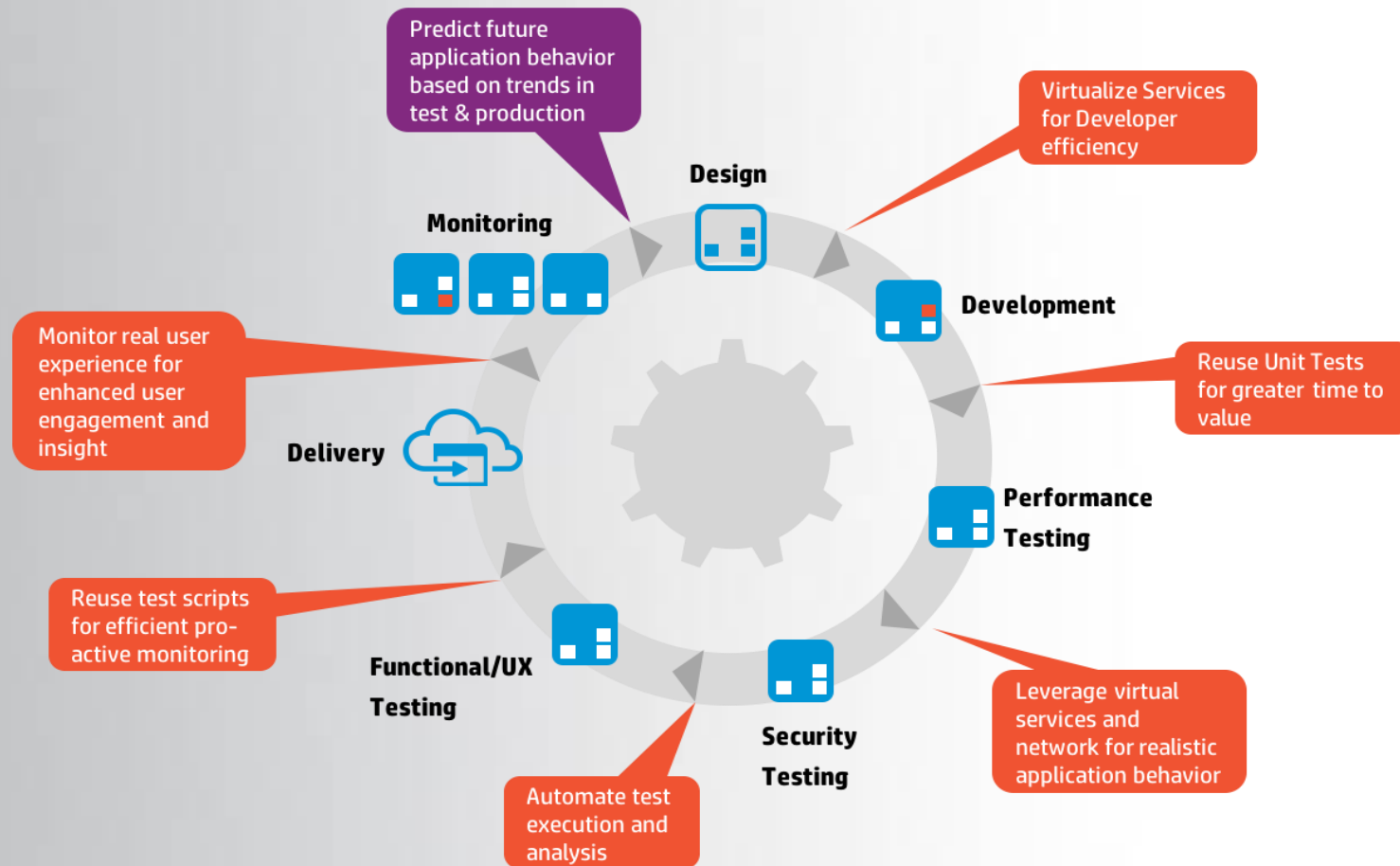
- HPE OO
- HPE SAW
- HPE Propel
- HPE App Defender

Continuous Assessment

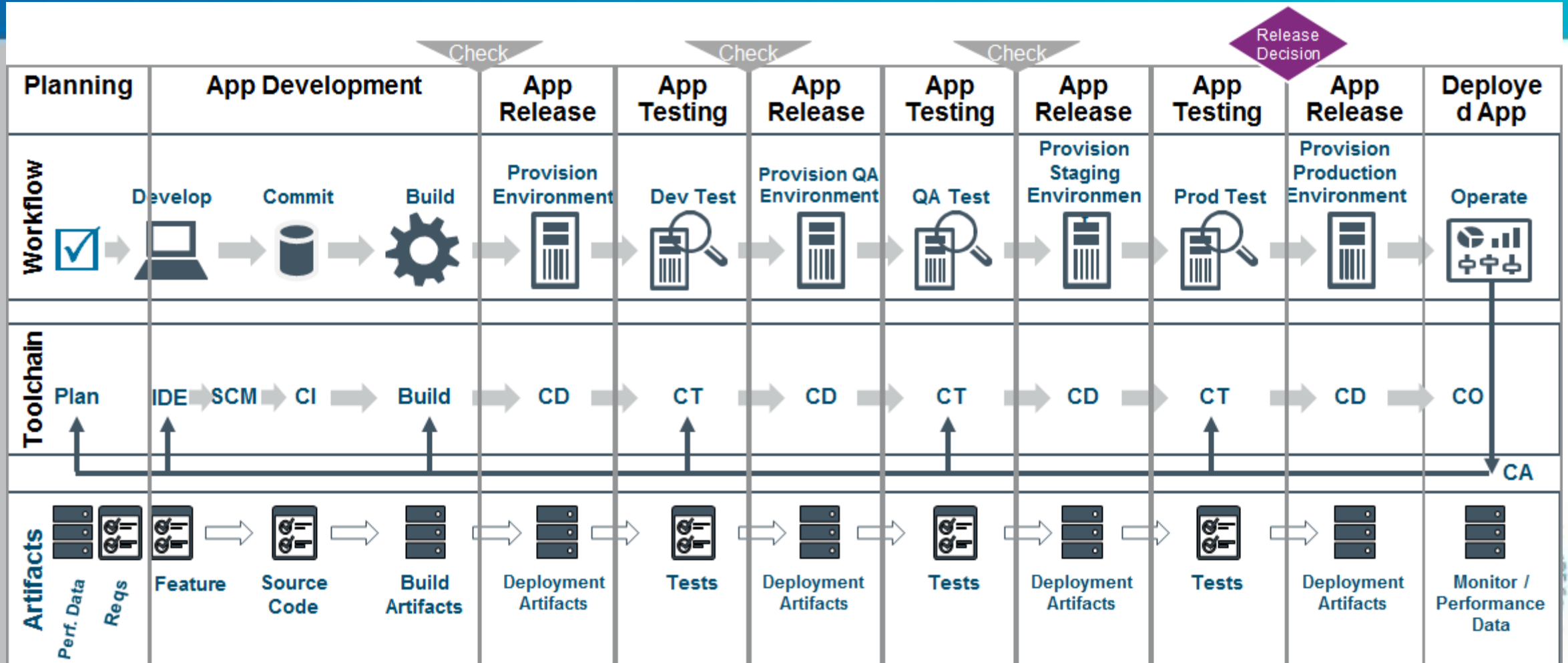
Continuous delivery & deployment

- HPE CODAR HPE Helion
- HPE SA Synergy / Composable Infra
- HPE OO HPE App Defender

CI / Build Server



Delivery



Monitoring



Polling Question #3

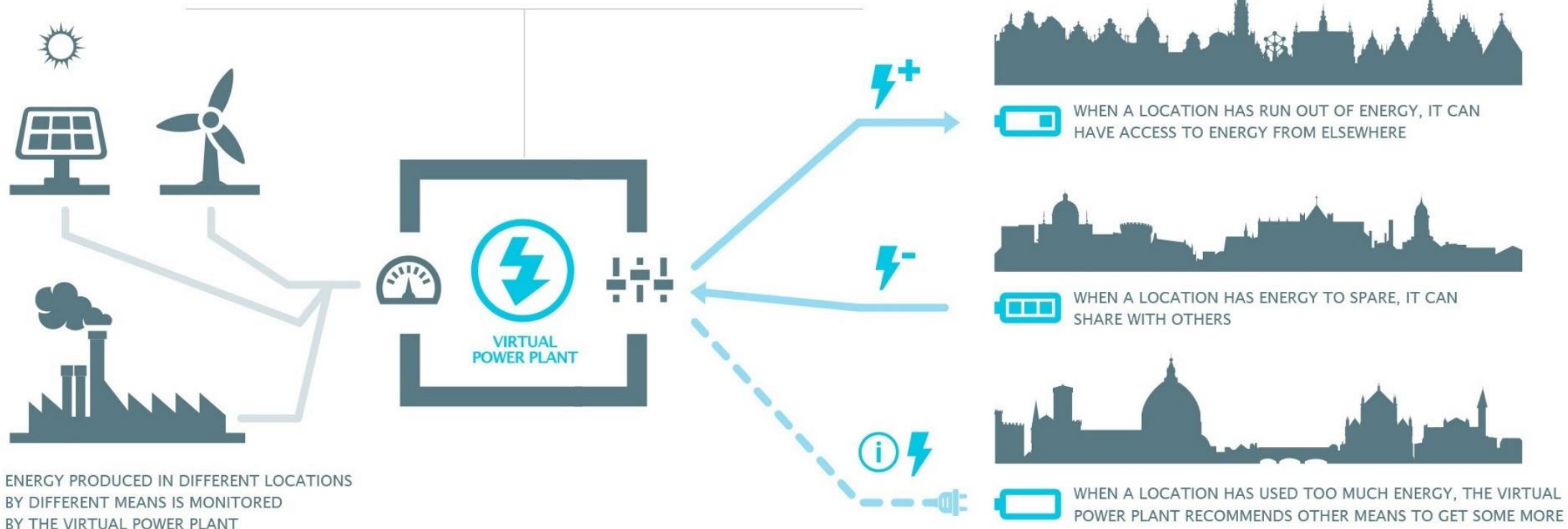
Do you have enough examples / stories of how others are doing Performance Engineering within Agile? [select one]

1. Yes
2. No
3. Want more examples / stories

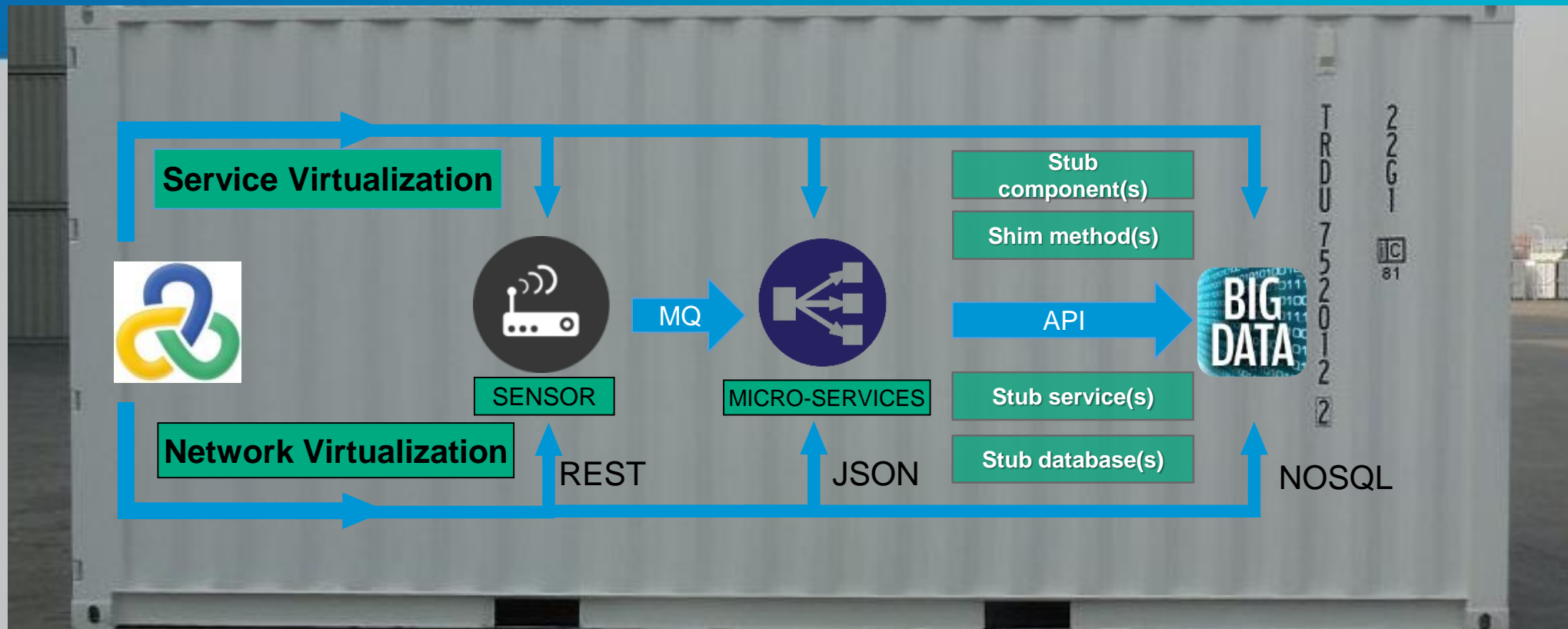


Virtual Power Plant – Digital Broker

THE VIRTUAL POWER PLANT APPLIES THE FINANCIAL TRADING MODEL TO GREEN ELECTRICITY BY DEFINING BUY/SELL OPPORTUNITIES AND IMPROVES PROFITABILITY



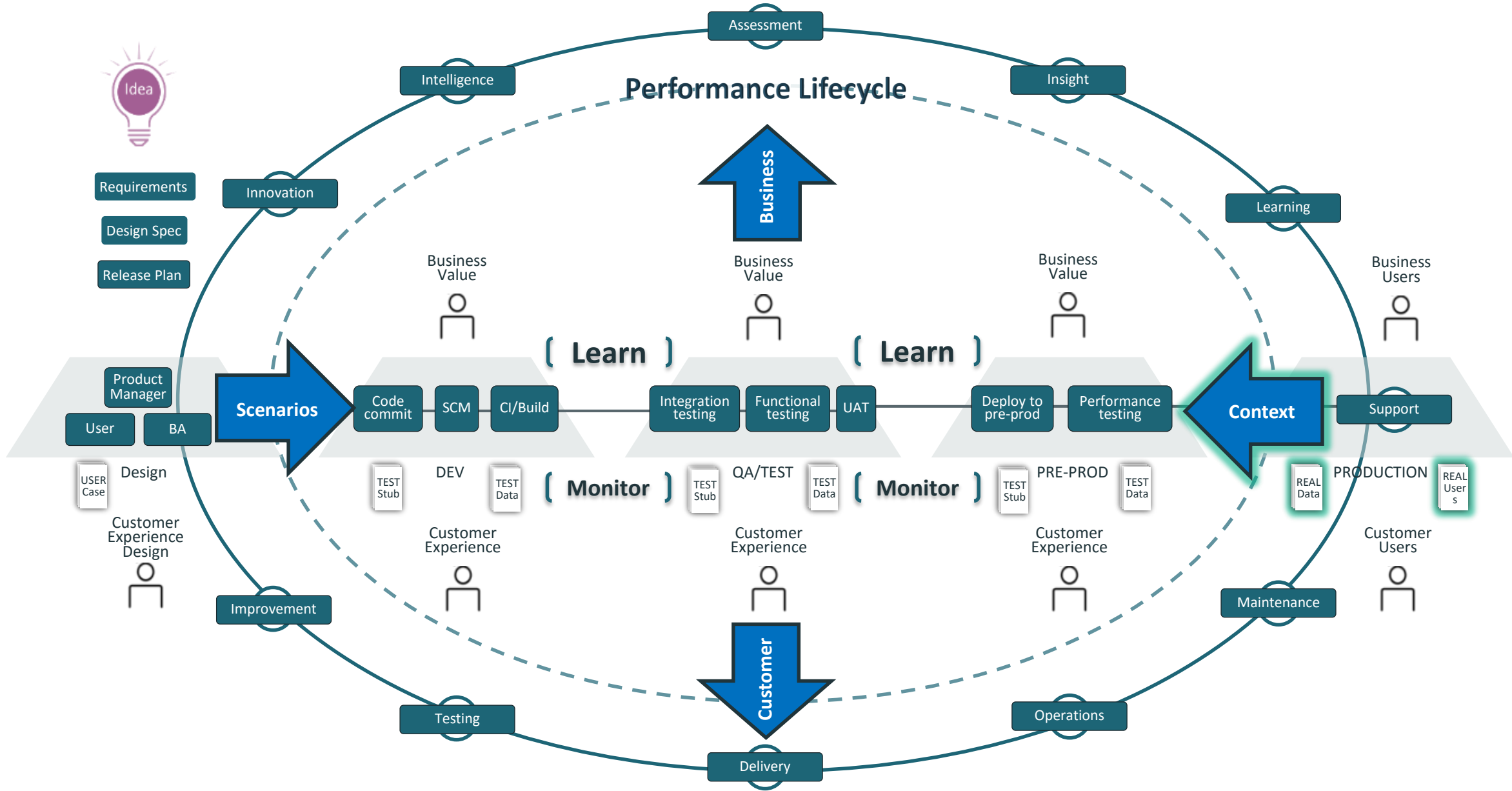
Virtual Power Plant – Micro-containers



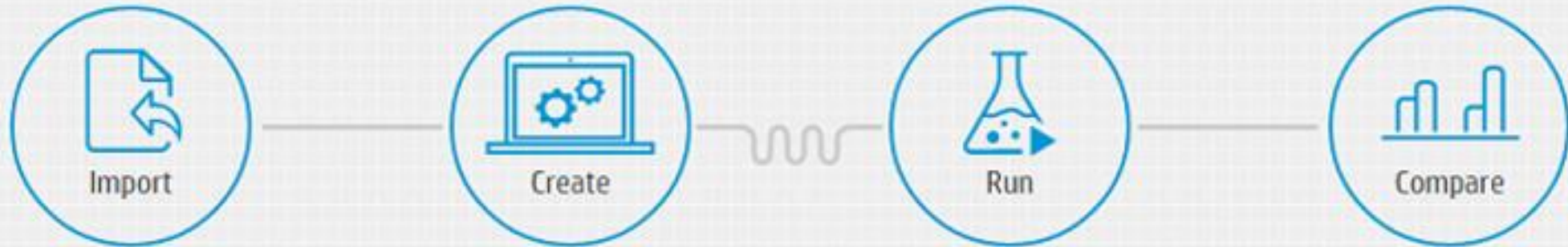
“Performance engineering represents a cultural shift in the way organizations view their essential processes. It embraces practices and capabilities that build in quality and performance throughout an organization.”



Performance Lifecycle



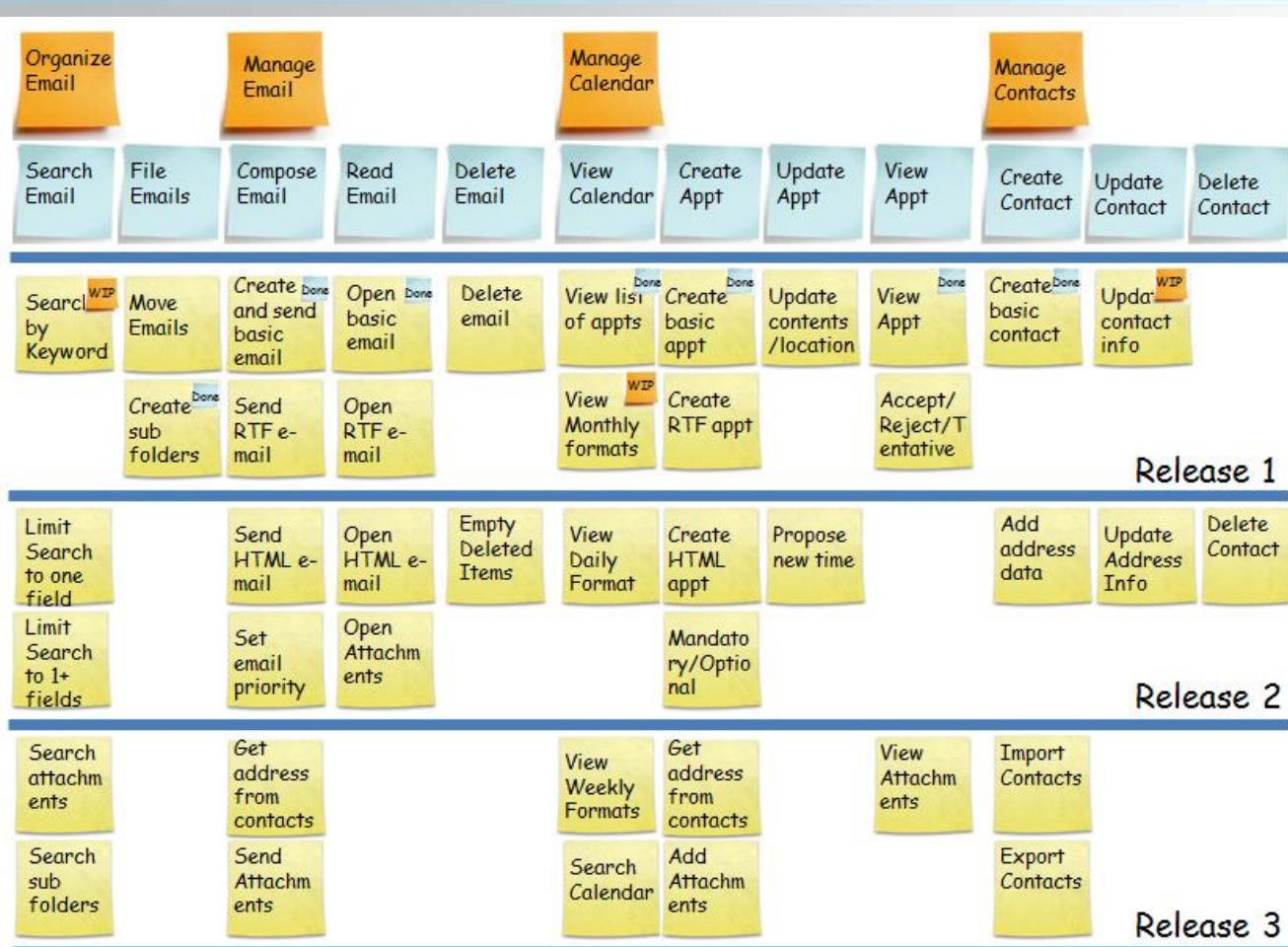
Performance Application Lifecycle



PAL Overview — Import a dataset, create a PAL Scenario, Run test, Compare reports

Looking for Agile NFRs

As **who** I want
what so that
why



Don't look for the Product Owners to start writing performance stories

- Acceptance Criteria
- Definition of done



"Responding to Change over Following a Plan"

Progressive Performance

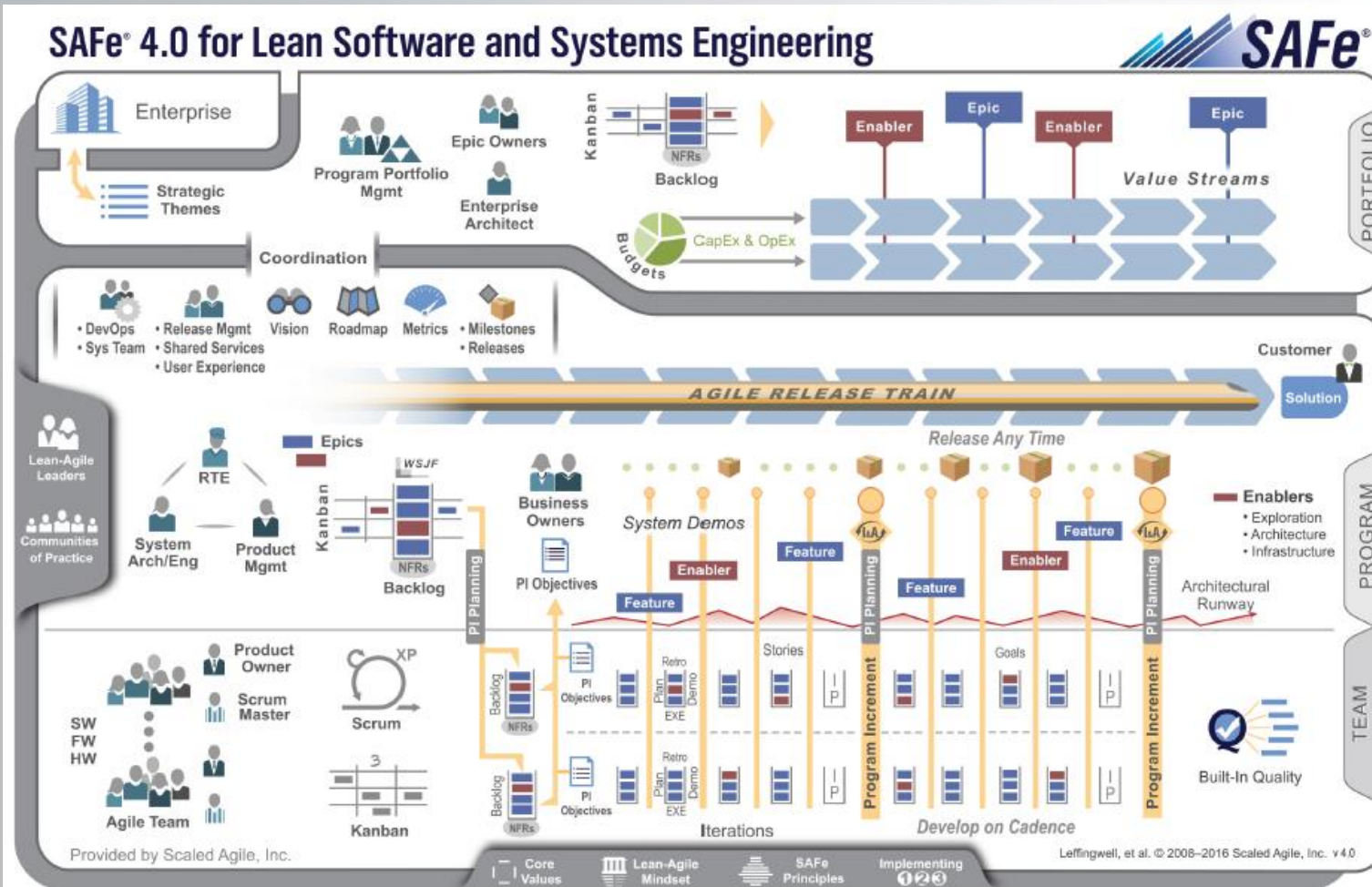
Agile is all about Progressive Elaboration of the solution.

- Focus on the performance acceptance criteria for each story
 - ✓ May require non-traditional performance techniques
- Progressively expand coverage through iterations
 - ✓ As the application features expand, look to verify performance across ever increasing integrations
 - ✓ Avoid the compulsion to wait until all functionality is available to test
- End-to-End performance should validate the Definition of Done



Just because there is a performance acceptance criteria on all stories, doesn't mean the app will perform

Scaled Agile Framework (SAFe)



Identify where the Performance team members belong

- Agile Team
- Systems Team
- Shared Service



Polling Question #4

What is the #1 reason preventing you from adopting Performance Engineering practices? [select one]

1. Time
2. Money
3. Effort
4. Value
5. We are adopting Performance Engineering practices



One tip



What is one thing you could do today to adopt Performance Engineering practices into your Agile process?



More Information

HPE Software Performance Engineering

<http://www.HPE.com/Software/PE>

TechBeacon Performance

<http://techbeacon.com/performance>

Blogs: LoadRunner and Performance Center

<http://bit.ly/HPE-LRPCBlog>

Vivit Worldwide: PE SIG

<http://bit.ly/VIVITPE>



Questions & Thank you

**Vivit Worldwide
Performance Engineering
Special Interest Group**

<http://bit.ly/VIVITPE>

